

WAC 296-842-20005 Make sure breathing air and oxygen meet established specifications. (1) Make sure that all SCBAs and air-line respirators are provided with safe breathing air and oxygen.

(2) Compressed breathing air must meet the following specifications for Grade D air:

(a) Oxygen (volume/volume) within 19.5-23.5%

(b) Hydrocarbon (condensed): NO MORE than five milligrams per cubic meter of air

(c) Carbon **monoxide** (CO): NO MORE than ten parts per million (ppm)

(d) Carbon **dioxide** (CO₂): NO MORE than 1,000 ppm

(e) No noticeable odor

Reference: See the American National Standards Institute - Compressed Gas Association Commodity Specification for Air (G-7.1.1989) for more information. Contact your local library to access a copy.

(3) Make sure the moisture content of the air supplied meets the following:

(a) Air supplied to respirators from cylinders must **NOT** exceed a dew point of -50°F (or -45.6°C) at 1 atmospheric pressure.

(b) Compressor supplied air must **NOT** exceed a dew point of 10°F (or 5.56°C) **BELOW** the use temperature at 1 atmospheric pressure.

(4) Cylinders of breathing air purchased or otherwise obtained from a supplier must have a certificate of analysis from the supplier verifying each cylinder's contents meet Grade D breathing air requirements and dew point standards.

(5) Compressed and liquid oxygen must meet the United States Pharmacopoeia requirements for medical or breathing oxygen.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 07-05-072, § 296-842-20005, filed 2/20/07, effective 4/1/07; WSR 03-20-114, § 296-842-20005, filed 10/1/03, effective 1/1/04.]